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510(k) Summary of Safety and Effectiveness

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990, 21 CFR 807.87, 21 CFR 807.92, Format for Traditional and Abbreviated 510(k)s.

1. Name of Submitter, Contact Person and Date Summary Prepared:

Name:

Enginivity LLC.

Address:

9 Grapevine Avenue, Suite 2

Lexington, MA 02421

Phone:

781-862-7008

Fax:

781-674-9663

Official Contact:

David Cassidy

Executive Vice President

Date of Preparation:

February 27, 2006

2. Device Trade Name and Common Name:

Trade Name:

eFlow™ Model 100 IV Fluid Warmer

Common/Usual Name:

Sterile Fluid Path, in-line Blood Fluid Warmer

Classification Name:

Warmer, Thermal, Infusion Fluid

3. Product Code:

LGZ

Device Class:

unclassified

4. Legally Marketed Equivalent Device Names:

Substantial equivalence is claimed to Estill Medical Technologies' Thermal Angel, Model 200 cleared under 510(k) K012031 on July 26, 2001.

5. Performance Standards:

ASTM F 2172-02 Standard Specification for Blood/Intravenous Fluid/Irrigation Fluid Warmers.

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6. Description of the Device:

The Enginivity eFlow™ IV Fluid Warmer consists of a warming device and a single use disposable set. The warmer can be powered by either an AC power adapter supplied by Enginivity LLC or a12-30 volt DC source meeting the requirements listed in the operators' manual. The warmer will deliver infusate to a patient at a temperature of up to 40°C at flow rates of 1 ml/min to a maximum of 200 ml/min.

The sterile disposable cartridge consists of a plastic housing and biocompatible coated aluminum extrusion which when combined form an enclosed fluid path. Heat, generated by electrical resistance, is transferred from the warmer to the fluid through the extrusion. Standard Luer fittings at the input and output allow the connection of standard hospital IV lines to the enclosed fluid path.

7. Intended Use of the Device:

The Enginivity eFlow™ IV Fluid Warmer is intended for warming blood, blood products and intravenous solutions prior to administration. It is intended to be used by healthcare professionals in hospital, clinical and field environments to help prevent hypothermia.

8. Comparison of technological characteristics with Predicate Devices:

The Enginivity eFlow[™] Fluid Warmer is substantially equivalent to Estill Medical Technologies' Thermal Angel, Model 200.

9. Discussion of Non-clinical Studies:

Results of studies conducted on sterilized eFlow™ Disposable Cartridges demonstrate the materials to be biocompatible for its intended use. In addition, performance data demonstrate the temperature accuracy of the device at different flow rates.

Laboratory evaluations have been conducted to evaluate the hemolytic effect of the eFlow IV Fluid warmer during flows ranging from 10 to 200 ml/min and stopped flow.

10. Conclusion:

Results of studies performed have demonstrated the safety and efficacy of Enginivity's eFlowTM IV Fluid Warmer and substantial equivalence to its predicate devices.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

JUN -8 2006

Enginivity LLC C/O Penelope H. Greco Vice President MedApprove, Incorporated 8 Gray Lodge Road Kittery, Maine 03904

Re: K060537

Trade/Device Name: Enginivity™ eFlow IV Fluid Warmer

Regulation Name: Warmer, Thermal, Infusion Fluid

Regulation Number: None Regulatory Class: Unclassified

Product Code: LGZ Dated: May 24, 2006 Received: May 24, 2006

Dear Ms. Greco:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

C

Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices Office of Device Evaluation Center for Devices and Radiological Health

510(k) Number (if known): KO	50537	-
Device Name: Enginivity eFlow IV Fluid Warmer		
Indications for Use:		
The eFlow IV Fluid Warmer is indicated for warming blood, blood products and intravenous solutions prior to administration. It is intended to be used by healthcare professionals in hospital, clinical and field environments to help prevent hypothermia.		
Contraindications of use: The eFlow lor drugs.	Disposable, Mo	del 200 is not for use with platelets
Prescription Use(Per 21 CFR 801.109)	OR	Over-The-Counter Use
(PLEASE DO NOT WRITE BELOW THIS	LINE-CONTINUE	ON ANOTHER PAGE IF NEEDED)
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Cob US3?

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